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Serial No.: 09/759,287

Attorney Docket No.: UNL 2999.1 (801204-0011)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors : Raul G. Barletta, N. Beth Harris
Title : IDENTIFICATION OF VIRULENCE
DETERMINANTS
Serial No. : 09/759,287
Filing Date: : January 11, 2001
Atty. Docket No.: : UNL 2999.1 (801204-0011)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)**

As assignee of record of the entire interest of the above-identified application:

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given are hereby revoked; and

NEW POWER OF ATTORNEY

Nancy T. Morris, Reg. No. 42,017; James H. Marsh, Jr., Reg. No. 24,533; J. David Wharton, Reg. No. 25,717; Penny R. Slicer, Reg. No. 34,017; Susan J. Wharton, Reg. No. 41,524; Judith L. Carlson, Reg. No. 41,904; Lana M. Knedlik, Reg. No. 42,748; Kelly S.K. Elsea, Reg. No. 43,604; Andrea F. Sellers, Reg. No. 44,102; Christopher D. Brandt, Reg. No. 44,556 and Mark C. Young, Reg. No. 48,670, at the Customer Number listed below, namely Stinson Morrison Hecker LLP, Attn: Patent Group, 1201 Walnut, Suite 2800, Kansas City, Missouri 64106-2150, telephone (816) 842-8600, are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

Direct all correspondence to: ☒ Customer Number 27910

Direct all telephone calls to: Nancy T. Morris, Telephone (402) 930-1759
Facsimile (402) 930-1701

Certificate of Mailing Under 37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

Date: March 17, 2004
Signature: Lara Gurley
Printed Name: Lara Gurley

The Director is hereby authorized to charge any additional amount required, or credit any overpayment, to Deposit Account No. 19-4409.

Assignment for U.S. Patent Application Serial No. 09/759,287 is:

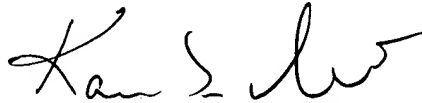
- ☒ Recorded in the Patent and Trademark Office on February 26, 2001, Reel 011562, Frame 0158.
- ☐ Recorded herewith.
- ☐ Filed for recordation in the Patent and Trademark Office on [Date]. The Notice of Recordation has not yet been received.

ASSIGNEE STATEMENT

Attached to this power is a "STATEMENT UNDER 37 C.F.R. § 3.73(b)."

Signed this 10 day of March, 2004.

**The Board of Regents of the University of
Nebraska**



By: Kannan S. Grant
Title: Associate Vice Chancellor of Technology
Development



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P.O. Box 1450
Alexandria, VA 22313-1450

**STATEMENT UNDER 37 C.F.R. § 3.73(b) –
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**

The Board of Regents of the University of Nebraska, a nonprofit organization, states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ Assignments recorded herewith from the inventors of the patent application identified above, copies of which are attached.

AND/OR

- B. ☐ A chain of title from the inventors of the patent application/patent identified above to the current assignee as shown below.

1. From: [Name of Assignor]
To: [Name of Assignee]

Certificate of Mailing Under 37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

Date: March 17, 2004
Signature: Lara Gurley
Printed Name: Lara Gurley

The Director is hereby authorized to charge any additional amount required, or credit any overpayment, to Deposit Account No. 19-4409.

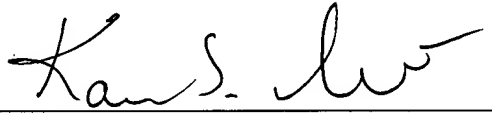
2. From: [Name of Assignor]
To: [Name of Assignee]
Recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for
which a copy thereof is attached.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of
the assignee.

Signed this 10 day of March, 2004.

**The Board of Regents of the University of
Nebraska**



By: Kannan S. Grant
Title: Associate Vice Chancellor of Technology
Development



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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
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Washington, D.C. 20231

CMG/GHB/JEB

MAY 14, 2001

PTAS
SENNIGER, POWERS, LEAVITT & ROEDEL
JAMES E. BUTLER, PH.D.
ONE METROPOLITAN SQUARE
16TH FLOOR
ST. LOUIS, MO 63102



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LLNL 2999.1

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/26/2001

REEL/FRAME: 011562/0158
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BARLETTA, RAUL G. /

DOC DATE: 02/15/2001

ASSIGNOR:

HARRIS, N. BETH /

DOC DATE: 02/15/2001

ASSIGNEE:

BOARD OF REGENTS OF THE UNIVERSITY /
OF NEBRASKA, THE
3835 HOLDREGE STREET
LINCOLN, NEBRASKA 68588-0745

SERIAL NUMBER: 09759287 /
PATENT NUMBER:

FILING DATE: 01/11/2001 /
ISSUE DATE:

MAURICE CARTER, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

Bmw

Attorney Docket No.
UNL 2999.1

RECORDATION
PA

03-12-2001



101632116

s) or copy thereof.

To the Honorable Commissioner of Patents and Trademark

1. Name of conveying party(ies) (assignor(s)):

Raul G. Barletta and N. Beth Harris

Additional name(s) of conveying party(ies) attached? ☐ yes ☒ no

2. Name and Address of Party(ies) receiving an interest (assignee(s)):

Name: The Board of Regents of the University of Nebraska

Address: 3835 Holdrege Street

City: Lincoln

State: Nebraska

Zip: 68588-0745

Country: U.S.A.

Additional name(s) & address(es) attached? ☐ yes ☒ no

3. Nature of Conveyance:

☒ Assignment

☐ Merger

☐ Change of Name

☐ Verified Translation

☐ Security Agreement

☐ Other

Execution Date: February 15, 2001

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date(s) of the application is:

A. Patent Application No(s).

B. Patent No(s).

09/759,287

Others on additional sheet(s) attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

James E. Butler, Ph.D.

Sehniger, Powers, Leavitt & Roedel

One Metropolitan Square

16th Floor

St. Louis, Missouri 63102

(314) 231-5400 (telephone)

6. Total number of applications and patents involved:

Application(s) 1 + Patent(s): 0 = Total

7. Total Fee (37 CFR 3.41) \$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit Account Number: 19-1345

(Duplicate copy of this sheet attached)

☒ Charge any underpayment or credit any overpayment to above Deposit Account

DO NOT USE THIS SPACE

9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James E. Butler, Ph.D.

Name of Person Signing

Signature

February 22, 2001

Date

Total number of pages including cover sheet, attachments, and document:

7

40E

ASSIGNMENT

WHEREAS, We Raul G. Barletta of Lincoln, Nebraska and N. Beth Harris of Lincoln, Nebraska have invented an improvement in Identification of Virulence Determinants (File UNL 2999.1) and have executed an application for a United States patent based thereon Serial No. 09/759,287 filed January 11, 2001;

AND, WHEREAS, The Board of Regents of the University of Nebraska of Lincoln, Nebraska, a nonprofit organization (hereinafter referred to as "ASSIGNEE") is desirous of acquiring certain rights thereunder;

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, we have agreed to and do hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said invention, said United States application, any other United States applications (including provisional, non-provisional, divisional, continuing, or reissue applications) based in whole or in part on said United States application or in whole or in part on said invention, any foreign applications based in whole or in part on any of the aforesaid United States application or in whole or in part on said invention, and any and all patents

(including extensions thereof) of any country which have been or may be granted on any of the aforesaid applications or on said invention or any part thereof;

TO BE HELD AND ENJOYED by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us had no sale and assignment of said interest been made;

AND We hereby authorize and request the Commissioner of Patents of the United States of America to issue any and all United States patents which may be granted upon said United States applications or any of them, or upon said invention or any part thereof, to said ASSIGNEE;

AND We hereby jointly and severally agree for ourselves and for our respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

AND We hereby jointly and severally covenant for ourselves and our respective legal representatives that we have granted no

right or license to make, use or sell said invention, to anyone except said ASSIGNEE, that prior to the execution of this deed our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, we have hereunto set our hands.

Feb 15, 2001
Date

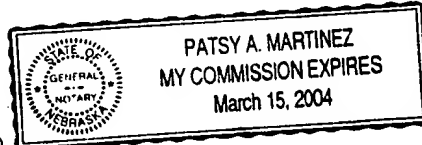
Raul G. Barletta
Raul G. Barletta

Patoy A. Martinez
Witness

IN WITNESS WHEREOF, we have hereunto set our hands.


N. Beth Harris

STATE OF Nebraska)
COUNTY OF Lincoln)



On this 5th day of February, 2001, before me, a Notary Public, personally appeared N. Beth Harris to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.


Notary Public

My Commission Expires:

March 15, 2004